

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006942

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/50 C12N9/12 C07K7/08 A61K35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, BIOSIS, MEDLINE, Sequence Search, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KONG X-P ET AL: "Three-dimensional structure of the beta subunit of E. coli DNA polymerase III holoenzyme: a sliding DNA clamp" CELL, CELL PRESS, CAMBRIDGE, MA, US, vol. 69, 1 May 1992 (1992-05-01), pages 425-437, XP002968224 ISSN: 0092-8674 the whole document	1-19
X	WO 03/025004 A (ARROWSMITH CHERYL; CANADIEN VERONICA (CA); BEATTIE BRYAN (CA); COX) 27 March 2003 (2003-03-27) page 107 - page 116; claim 242 ----- -/--	18, 19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

17 December 2004

Date of mailing of the international search report

27/12/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>YANG WEI: "Damage repair DNA polymerases Y."</p> <p>CURRENT OPINION IN STRUCTURAL BIOLOGY, vol. 13, no. 1, February 2003 (2003-02), pages 23-30, XP002262979</p> <p>ISSN: 0959-440X (ISSN print)</p> <p>the whole document</p>	1-19
A	<p>PODOBNIK MARJETKA ET AL:</p> <p>"Nucleotide-induced conformational changes in an isolated Escherichia coli DNA polymerase III clamp loader subunit."</p> <p>STRUCTURE (CAMBRIDGE), vol. 11, no. 3, March 2003 (2003-03), pages 253-263, XP002262980</p> <p>ISSN: 0969-2126 (ISSN print)</p> <p>the whole document</p>	1-19
A	<p>JERUZALMI DAVID ET AL: "Crystal structure of the processivity clamp loader gamma (gamma) complex of E. coli DNA polymerase III"</p> <p>CELL, vol. 106, no. 4, 24 August 2001 (2001-08-24), pages 429-441, XP002262981</p> <p>ISSN: 0092-8674</p> <p>the whole document</p>	1-19

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006942

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03025004 A	27-03-2003	WO 03025004 A2	27-03-2003
		WO 03025156 A2	27-03-2003
		CA 2460819 A1	27-03-2003
		US 2003170810 A1	11-09-2003